

PCT

**NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
APPLICATION AS PUBLISHED OR REPUBLISHED**

To:

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04 August 2005 (04.08.2005)

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IMPORTANT NOTICE

International application No.

PCT/RU2004/000298

International filing date (*day/month/year*)

03 August 2004 (03.08.2004)

Priority date (*day/month/year*)

04 August 2003 (04.08.2003)

Applicant

ZHILOV, Valery Khazhmuratovich et al

The International Bureau transmits herewith the following documents:



copy of the international application as published by the International Bureau on under
No. WO



copy of international application as republished by the International Bureau on 04 August 2005 (04.08.2005) under
No. WO 2005/011648

For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48)
or (88) (*as the case may be*) on the front page of the attached document.

The International Bureau of WIPO
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Authorized officer

Beate Giffo-Schmitt

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/RU2004/000298

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/502 A61K31/5025 A61P1/00 A61P5/02 A61P9/00
A61P9/12 A61P15/10 A61P25/16 A61P25/22 A61P25/24
A61P25/28 A61P25/30 A61P37/02 A61P37/08 A61P43/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 203 587 A (PAVLOV ANATOLIY IVANOVICH ; ABIDOV MUSEA TAZHUDINOVICH (RU)) 8 May 2002 (2002-05-08) abstract claim 1	1
X	RU 2 169 139 C (TS SOVREMENNOJ MEDITSINY MEDIK) 20 June 2001 (2001-06-20) abstract	1
X	EP 0 617 024 A (LIMAD MARKETING EXP & IMP) 28 September 1994 (1994-09-28) abstract claims 1-3	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

7 January 2005

Date of mailing of the international search report

-2 06. 2005

Name and mailing address of the ISA

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Langer, O

INTERNATIONAL SEARCH REPORT

PCT/RU2004/000298

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 612 733 A (LIMAD MARKETING EXP & IMP) 31 August 1994 (1994-08-31) abstract claims 1,3 -----	1
X	WO 02/09681 A (MEDINKOR ZMM AG ; ZHILOV VALERII KHAZHURATOVICH (CH)) 7 February 2002 (2002-02-07) abstract page 1, last paragraph - page 3, paragraph 3 entry 'acute gastroenteritis' on page 18; table 1 -----	1
X	DATABASE WPI Section Ch, Week 197533 Derwent Publications Ltd., London, GB; Class B02, AN 1975-54838W XP002312642 & JP 50 046697 A (TAKEDA CHEM IND LTD) 25 April 1975 (1975-04-25) abstract -----	1
A	US 4 612 316 A (ANDERSSON BENGT R ET AL) 16 September 1986 (1986-09-16) cited in the application abstract -----	1-3, 10-13
A	US 4 727 079 A (BODOR NICHOLAS S) 23 February 1988 (1988-02-23) cited in the application abstract -----	1-3, 10-13
A	US 4 904 676 A (RAE DUNCAN R ET AL) 27 February 1990 (1990-02-27) cited in the application abstract -----	1-3, 10-13
A	US 4 547 507 A (CLEMENTS-JEWERY STEPHEN ET AL) 15 October 1985 (1985-10-15) cited in the application abstract -----	1-3, 10-13
A	US 4 600 714 A (GAITANOPOULOS DIMITRI ET AL) 15 July 1986 (1986-07-15) cited in the application abstract -----	1-3, 10-13
A	US 5 281 594 A (PIERCEY MONTFORD F ET AL) 25 January 1994 (1994-01-25) cited in the application abstract -----	1-3, 10-13
	----- -/--	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 889 010 A (SANNER MARK A ET AL) 30 March 1999 (1999-03-30) cited in the application abstract -----	1-3, 10-13
A	US 5 883 094 A (SANNER MARK A ET AL) 16 March 1999 (1999-03-16) cited in the application abstract -----	1-3, 10-13
A	US 6 521 623 B1 (MONFERINI EUGENIA ET AL) 18 February 2003 (2003-02-18) cited in the application abstract -----	1-3, 10-13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/RU2004/000298

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-3 and 10-13 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1, 10-13 (all partially), 2, 3

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 2, 3, and partially 1, 10-13

Use of compounds according to the general structural formula of claim 1, wherein A, Z = -CH= and B = -N=, i.e. the pyrido[2,3-d]-6H-pyridazine-5,8-diones of claims 2 and 3, in the treatment of diseases caused by disorders of a nitrenergic system and/or dopaminergic system of an organism.

2. claims: 4, 5, and partially 1, 10-13

Use of compounds according to the general structural formula of claim 1, wherein A, B, Z = -CH=, i.e. the benzo[d]-3H-pyridazine-1,4-diones of claims 4 and 5, in the treatment of diseases caused by disorders of a nitrenergic system and/or dopaminergic system of an organism.

3. claims: 6, 7, and partially 1, 10-13

Use of compounds according to the general structural formula of claim 1, wherein Z = -CH= and A, B = -N=, i.e. the pyrazino[2,3-d]-6H-pyridazine-5,8-diones of claims 6 and 7, in the treatment of diseases caused by disorders of a nitrenergic system and/or dopaminergic system of an organism.

4. claims: 8, 9, and partially 1, 10-13

Use of compounds according to the general structural formula of claim 1, wherein A = -CH= and B, Z = -N=, i.e. the pyrimido[4,5-d]-6H-pyridazine-5,8-diones of claims 8 and 9, in the treatment of diseases caused by disorders of a nitrenergic system and/or dopaminergic system of an organism.
